



*GGCC University and College
Symposium
October 28, 2011*

Energy Efficiency Portfolio Standard Illinois Energy Now

What is Illinois Energy Now?

In 2007, legislation amended the Illinois Public Utilities Act and required that the State's largest utility providers and the Department of Commerce & Economic Opportunity (DCEO) develop a portfolio of ***electric*** energy efficiency programs to meet legislative goals that reduces energy demand.

In 2009, legislation was passed to include ***natural gas*** energy efficiency programs to meet legislative reduction goals.

Illinois Energy Now is the Department of Commerce & Economic Opportunity's program that is designed to administer the electric and natural gas rebates for public sector customers.

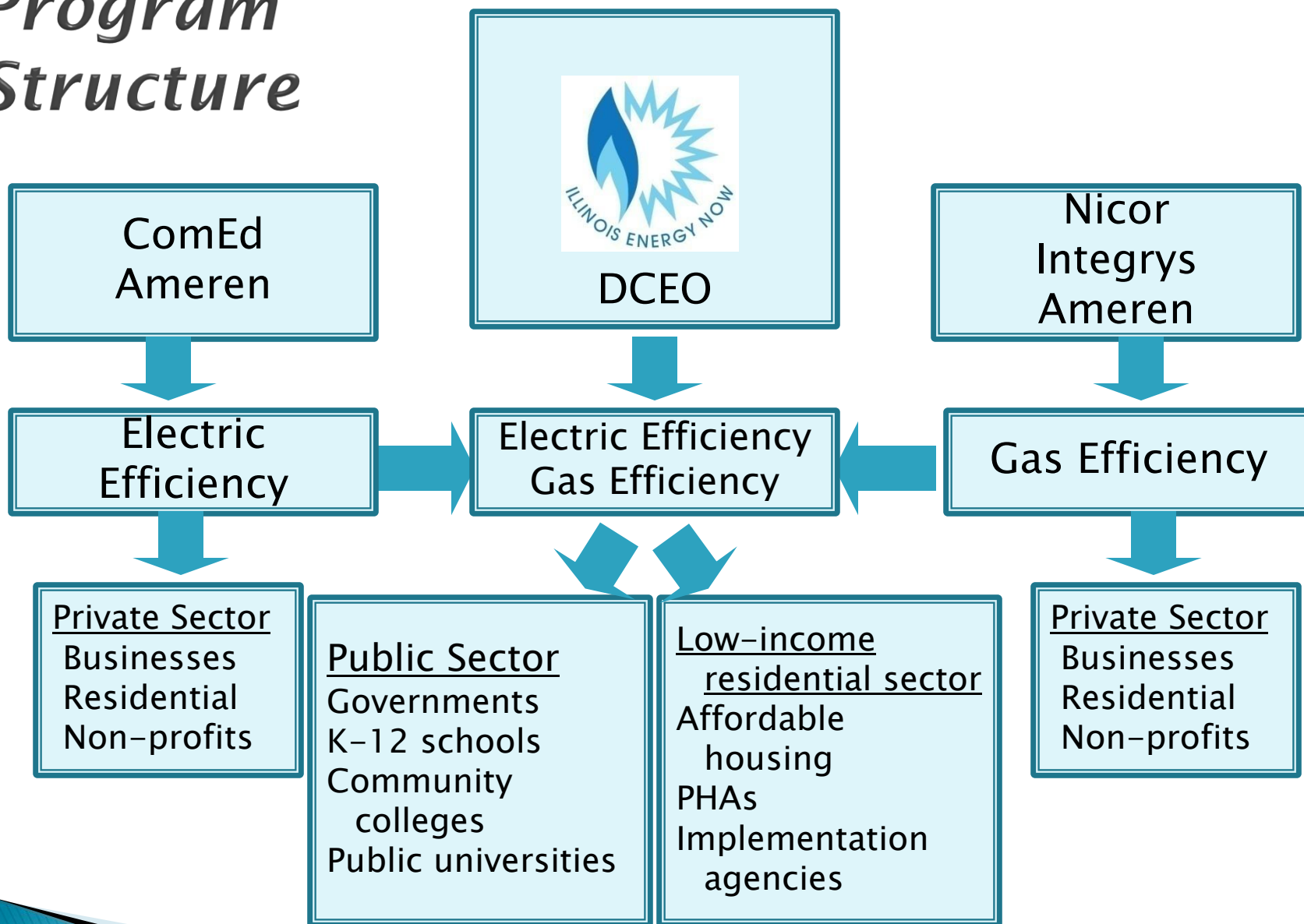


What are the benefits in having a State Energy Efficiency Portfolio?

- ▶ Rebates or incentives for installing energy efficient products
- ▶ Sets goals of reduction in annual electricity and natural gas load, rising to 2.0% by 2015 and beyond
- ▶ Funded by System Benefits Charge on customers monthly utility bill
 - Direct Benefits
 - Each \$1 spent on EE saves \$2-4
 - Indirect Benefits
 - Downward pressure on energy prices
 - Consumers have more \$ to spend in the economy
 - Increased jobs to meet economic stimulation



Program Structure



Illinois Energy Now Program Structure

DCEO Public Sector

- **Local governments**
 - Municipalities
 - Townships & County facilities
- **Special units of local government**
 - Library & Park districts
 - Public safety
 - Water reclamation districts
- **State and federal agencies**
- **Public Schools**
 - K-12 Public Schools
 - Public community colleges
 - Public universities

Electric & Gas Utilities

- **Privately owned businesses**
- **Privately owned industrial & commercial facilities**
- **Private Schools**
 - Private K-12 schools
 - Private colleges
 - Private universities
- **Not-for-profit**
 - Museums
 - Foundations
 - Trade Organizations
- **Residential**



Illinois Energy Now Estimated Budget

Year	Electric	Natural Gas
2011	\$ 54 million	\$15 million
2012	\$ 55 million	\$22 million
2013	\$ 55 million	\$30 million



2011-2012 Program Year PSEE Standard and Custom Estimated Funding Available

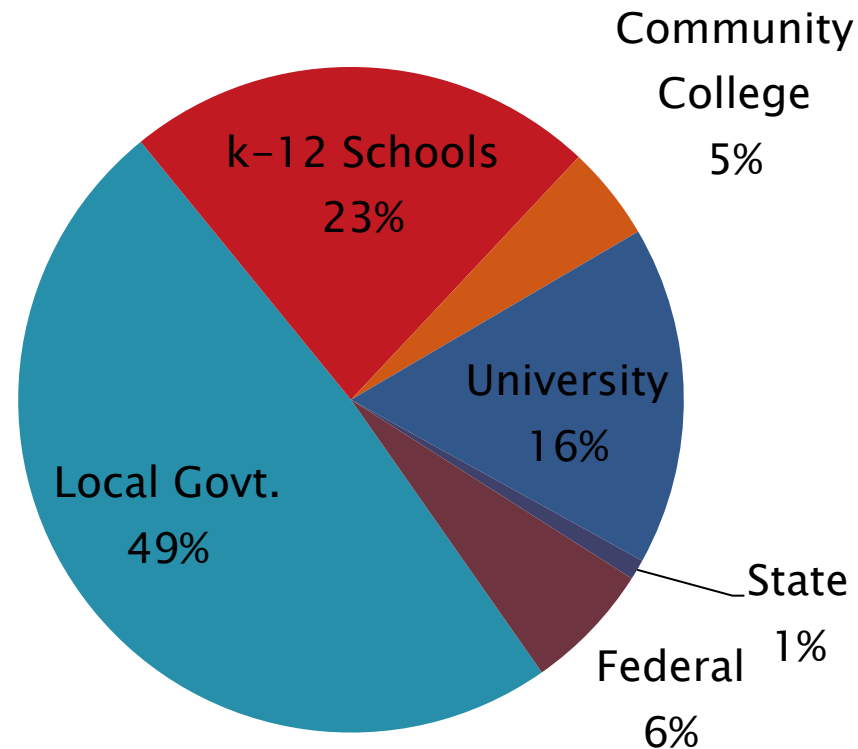
Funding Level	Ameren Electric	ComEd	Ameren Natural Gas	Nicor	Peoples	Northshore
Year 4 Budget	\$7.7 M	\$20.2 M	\$2.0 M	\$4.4 M	\$1.2 M	\$271 K

Year 4 funds are available for projects completed 6/1/11 – 5/15/12.



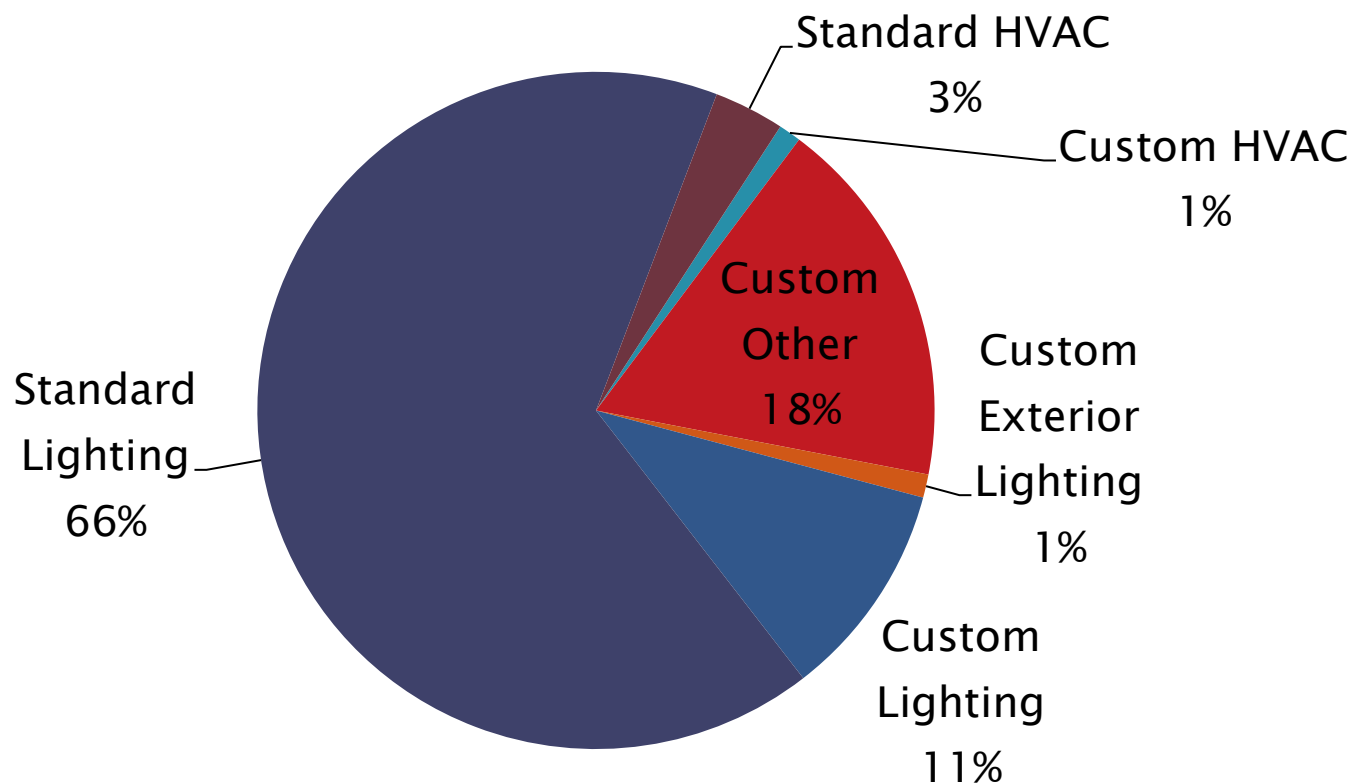
Illinois Energy Now

Who has Received Electric Incentives?



Illinois Energy Now

Where the Energy Savings Have Come From



- Standard and Custom lighting projects are the most common project types.





Integrated Natural Gas and Electric Efficiency Programs

Eligibility and Funding Availability www.illinoisenergy.org

2011-2012 Program Year 4 Guidelines and Application available now for Illinois Energy Now Public Sector Electric and Natural Gas Efficiency Programs (for projects completed June 1, 2011 – May 31, 2012).

Please Check here for Funding Availability before proceeding with Application for Illinois Energy Now Public Sector Standard and Custom Incentive Programs.

Table 1. Funding Availability June 1, 2011

ELECTRIC		
✓	Ameren	Yes
✓	ComEd	Yes
NATURAL GAS		
✓	Ameren	Yes
✓	Nicor	Yes
✓	North Shore	Yes
✓	Peoples	Yes

ILLINOIS ENERGY NOW

Standard Program

“Off the Shelf” Equipment for items such as:

Electricity

- Lighting Equipment
- HVAC Equipment
- Refrigeration Equipment
- Motors and Drives
- LED traffic signals
- Kitchen/refrigeration equipment

Natural Gas

Gas Furnaces

- Water Heaters ≥ 50 gallon (Tanked & Tankless)
- Boilers
- Condensing Boiler
- ▶ Kitchen steam cookers
- ▶ Low Flow spray valves

Illinois Energy Now Standard Incentive Program HVAC and Water Heaters

- ▶ Increased incentives for electric air conditioning equipment
- ▶ New incentives added for:
 - Natural gas furnaces and boilers
 - Ground Source Heat Pumps (GSHP)
 - Baseline all electric
 - Baseline electric HVAC and natural gas heating
 - Baseline existing GSHP ≤ 13 EER
 - Natural gas water heaters
 - Tanked
 - Tankless
 - Condensing



Illinois Energy Now Custom Incentive Program

- ▶ For those electric and/or natural gas efficiency measures not listed in Standard Incentive Program
- ▶ Electric Custom Incentive = \$0.12 per annual kWh savings
- ▶ Exterior LED or Induction Lighting Incentive = \$0.30 per annual kWh savings
- ▶ Natural Gas Custom Incentive = \$1.25 per annual therms savings
- ▶ Simple payback must be 1 to 7 years



Illinois Energy Now New Construction Program

- ▶ Encourages applicants to design new or rehabbed buildings to achieve the greatest level of energy efficiency
- ▶ Offers \$0.08/kWh and \$0.80/therm incentives for facility design improvements *beyond code*
- ▶ Design Bonus offered for LEED buildings
- ▶ Estimated electricity savings must be documented by energy modeling and/or supporting calculations



Illinois Energy Now Retro-Commissioning Program

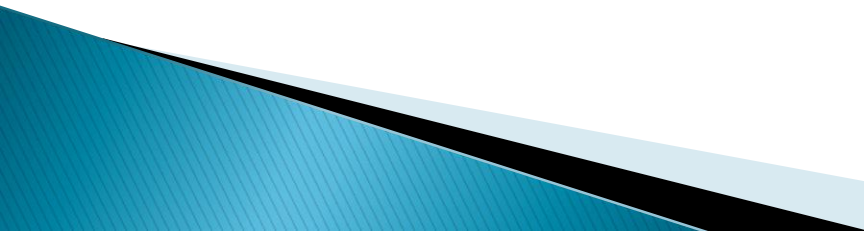
- ▶ Helps identify and implement low cost tune-ups and adjustments to existing building operating systems
- ▶ Focus on HVAC and building control systems
- ▶ Administered by Smart Energy Design Assistance Center (SEDAC)
- ▶ Year 3 provided funding for ~ 16 projects
- ▶ Not end-of-life



New Program

Public Sector Aggregation

- ▶ Allows local governments and non-profit entities serving the public sector to combine projects
 - ▶ Allows unique approach to serve different sectors
 - ▶ Aggregator will manage project implementation
 - ▶ New delivery channel to hard-to-reach customers
 - ▶ Training and Technical Assistance will be provided

 - ▶ 2011 – 2012 Award recipients
 - City of Chicago
 - IGEN – Community College Sustainability Network
 - Metro Mayors Caucus
 - Ill County Commissioners Association
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ILLINOIS ENERGY NOW

Public Sector Case Study – Electric Efficiency

- Township High School District 214
- Existing T-8 fluorescent fixtures reconfigured to remove lamps and re-lamped 32W T-8 lamps to reduced wattage 25W T-8 lamps. Replaced existing incandescent lamps with CFL's. Installed occupancy sensors.

Total project cost	\$160,000
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Illinois Energy Now Incentive	\$ 90,000
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Total Cost to School	\$ 70,000
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Estimated energy saved – 913,416 kWh per year,

Estimated annual savings \$75,000 – payback 1 year

Calculated during **year 2** of the Illinois Energy Now program



When you Apply, Remember the Two E's:
Use the **Excel** version of the application
and **Email** .
illinois.energy@illinois.gov

Illinois Energy Now

Application Process Steps

- ▶ **Step 1: Submit a Pre-approval Application**
 - Click the Pre-Approval check box on application
 - Complete the appropriate worksheet
 - Requires customer signature
- ▶ **Step 2: Receive Notice to Proceed from DCEO**
- ▶ **Step 3: Install Equipment or Perform Project Work**
 - Maintain documentation
- ▶ **Step 4: Submit a Final Application**
 - Click the Final check box on application
 - Submit all required supporting documentation
 - Requires customer signature
- ▶ **Step 5: DCEO Processes Rebate or Grant**



Illinois Energy Now

Natural Gas Boiler Tune-Up Special

- ▶ Provides cash incentives to encourage owners of natural gas boilers (> 200,000 Btuh) to invest in a boiler tune-up by a qualified contractor
- ▶ Encourages contractors to identify further energy saving opportunities with the boiler system (steam trap and pipe insulation repair)

Heat Source MUST be Natural Gas

**Applications accepted from 9/1/11
through 2/29/12**



DCEO Technical Assistance Training & Education Programs





www.sedac.org

- ▶ Partners: U of Illinois, SEDAC Design Assistance Experts and Energy Service Providers
- ▶ Assist public sector/private building owners to identify opportunities to save energy and money
- ▶ Provide energy audits, analysis and design assistance including:
 - Design review and/or site inspection
 - Computer modeling of base case and alternatives with ECMs
 - Energy savings analysis
 - Life cycle cost analysis
 - Final report with recommendations
- ▶ Retro-Commissioning

Building Industry Training & Education

- ▶ *Programs to train students and the building industry as well as to enhance the capacity of efficiency service providers, in order to meet long-term Program goals and includes:*
 1. Commercial & residential green building practices
 2. Building code and beyond code training
 3. Building Operator Certification
(www.boccentral.org)
 4. Illinois Home Performance with Energy Star
 5. Trade Ally Network support and training



Energy Performance Contracting (EPC) Technical Assistance

- ▶ DCEO provides no-cost technical assistance and advice that includes:
 - Boilerplate documents:
 - Request for Proposal
 - Energy Audit Agreement
 - Energy Service Agreement
- ▶ Measurement and Verification Assistance
- ▶ Contact Wayne Hartel (217-785-3420)
wayne.hartel@illinois.gov



Illinois Recycling Grants Program

- ▶ **Traditional Recycling Grants** – Through a competitive process, awards matching grants involving the establishment or expansion of recycling collection or processing programs that address traditional recyclables (e.g.: fiber, plastic, metal, glass).
Project examples: curbside recycling, drop-off recycling, colleges, park districts, office buildings, sports facilities, etc.
- ▶ **Food Scrap Program** – This program is designed to support projects that will divert food scraps and other organic material, excluding yard waste, from Illinois landfills for composting, increasing the quantity of materials composted in Illinois.
- ▶ **(REM) Program** – grants that help communities and business improve their waste reduction practices and increases use of recyclables to divert materials from landfills
- ▶ **Zero Waste Schools** – Grants to K-12 Schools to implement or expand recycling and waste reduction programs – i.e. composting, collection containers, paper shredders, can crushers, hand dryers, compost equipment and tools

Illinois Energy Office Renewable Energy Programs



Community Renewable Energy Program

- Purpose: Support the development and implementation of distributed community-scale renewable energy facilities (> \$100,000 projects)
 - Eligible Activities: project costs for the purchase and installation of solar and wind generation equipment, and related metering components as appropriate
 - Project Completion: Projects must be completed within two years of the start date of the grant agreement
 - Maximum Grant Award anticipated to be \$250,000
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- **Grant applications for FY12 are due October 28th**



Solar & Small Wind Rebate Program

- Annual Rebate Program – **Closed for FY12**
- Covers wind projects up to 100kW,
- solar PV and solar thermal
- Rebates in the amount \$30,000 or less
- Program parameters (% of project cost, \$/watt rate) are subject to change for next program year
- Anticipated launch for FY13 in September 2012



Biogas and Biomass Program

- ▶ Provides grants for feasibility studies and biogas or biomass to energy systems
 - maximum award for feasibility studies is \$2,500
 - maximum award for biogas to energy systems is \$225,000
 - maximum award for biomass to energy systems is \$500,000
- ▶ Minimum applicant investment required is 50%

Completed Gasifer
System at Packer
Engineering



Renewable Energy Business Development Program

- ▶ Purpose:
 - To support the development or expansion of renewable energy component manufacturers
 - Create green jobs in Illinois
- ▶ Eligible Activities: Project activities will typically involve the purchase of equipment needed for manufacturing products, commissioning of facility, and operation of facility manufacturing renewable energy products or components.
- ▶ Project Completion: Projects must be completed within two years of the start date of the grant agreement
- ▶ **Grant applications for FY12 are due October 28th**

Key Web Links

Link	Information
www.illinoisenergy.org	DCEO Energy Programs: guidelines, RFPs, contacts, applications, and other resources
www.ActOnEnergy.com	Ameren Illinois ActOnEnergy Business Programs
www.ComEd.com	ComEd Smart Ideas Business Solutions Programs
www.nicorgasrebates.com	Nicor Business Programs
www.peoplesenergy.com	Peoples Energy Efficiency Business Programs
www.northshoregas.com	Northshore Energy Efficiency Business Programs
www.illinoiscleanenergy.org	IL Clean Energy Community Foundation
www.sedac.org	Smart Energy Design Center

Public Sector Program Contacts

- New Applications: Sally Agnew, 217.785.5081
sally.agnew@illinois.gov
- Local Government: Andrea Reiff, 217.785.0164
andrea.reiff@illinois.gov
- Public Schools & Community Colleges: Byron Lloyd, 217.785.3412, byron.lloyd@illinois.gov
- State and Federal: Johnny Habibi, 217.785.2772, johnny.habibi@illinois.gov
- Public Universities, Retro-commissioning & New Construction : Tom Coe, 217.785.2433
tom.coe@illinois.gov
- Low Income: Don Falls, 217.785.1997
don.falls@illinois.gov



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